

B2  
Sub  
D3

15. (Amended) A voltage ramp generator comprising:  
a capacitance; and  
a charging circuit connected to said capacitance and  
comprising  
a current generator having a first resistance,  
and  
a degenerate current mirror circuit connected  
to said current generator and to said capacitance,  
said degenerate current mirror circuit having a  
second resistance for generating a capacitance  
charging current that is proportional to a square of  
a ratio of the second resistance and the first  
resistance.

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B3  
Sub  
D5

21. (Amended) A current ramp generator comprising:  
a voltage ramp generator comprising  
a capacitance, and  
a charging circuit connected to said  
capacitance and comprising  
a current generator having a first  
resistance, and  
a circuit connected to said current  
generator and to said capacitance having a  
second resistance and enabling a capacitance  
charging current to be proportional to a square  
of a ratio of the second resistance and the  
first resistance; and  
a conversion circuit connected to said voltage ramp  
generator for generating a current ramp.

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B4  
Sub  
D7

29. (Amended) A current ramp generator comprising: